printing layer contg. IR light absorbing pigment Security ink print with excellent light resistance. - which forms MITSUI TOATSU CHEM INC 95-260633/34 protective layer contg. UV emulsion absorbed in specified range on 93.12.17 93JP-317811 *(95.06.27)* B41M 3/14, B42D 15/10, C09D 11/00, C09K 3/00 E23 G02 MITK 93.12.17 *JP 07164729-A

absorbed in the range of 250nm to 400nm on a printing layer contg. near infrared ray absorbing pigment. A security ink print forms a protective layer contg. ultraviolet emulsion Also claimed is that the near infrared ray absorbing pigment is at least

phthalocyanine cpd. of formula (3);

one of dithiol cpd. of formula (1), dithiol cpd. of formula (2),

E(23-B, 25) G(2-A4A)

carbamoyl, alkylamino carbonyl, alkoxy carbonyl, aryloxy carbonyl, substd. or unsubstd. alkyl, aryl, alkoxy, aryloxy, alkylthio, arylthio, $A^1 - A^8 = H$, halogen, nitro, cyano, thiocyanate, cyanate, acyl,

alkyl amino or aryl amino; $R^1 - R^4 = \text{substd.}$ or unsubstd. alkyl or aryl;

oxy metal. M = metallic atom of 2 values, contg. metallic atom of 3 or 4 values or

B' - B' = H, cyano, acyl, carbamoyl, alkylamino carbonyl, alkoxy

JP 07164729-A+

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carbonyl, aryloxy carbonyl, substd. or unsubstd. alkyl, aryl; M = metallic atom of 2 values, substd. metallic atom of 3 or 4 values of oxy metal.

or oxy metal
USE

USE

The security ink print is used for preventing faking of prepared cards, merchandise bonds or bonds by detection of near infrared ray.

ADVANTAGE

The security ink print can have excellent light resistance.

(11pp104DwgNo.0/0)

C1 - C16 = H, halogen, substd. or unsubstd. alkyl, alkoxy, aryl, aryloxy, alkylthio, arylthio;
M = metallic atom of 2 values, substd. metallic atom of 3 or 4 values or oxy metal.
D¹ - D²⁴ = H, halogen, substd. or unsubstd. alkyl, alkoxy, aryl, aryloxy, alkylthio, arylthio;
M = metallic atom of 2 values, substd. metallic atom of 3 or 3 values

JP 07164729-A

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